

Ulip2 mouse

cttcctccgcccccgagag	M	S	Y	Q	G	K	K	N	I	P	P	I	12
	ATG	TCT	TAT	CAG	GGG	AAG	AAA	AAT	ATT	CCA	CCC	ATC	58
T	S	D	R	L	L	I	K	G	G	K	I	V	30
ACG	AGC	GAT	CGT	CTT	CTG	ATC	AAA	GGT	GGC	AAG	ATT	GAT	112
F	Y	A	D	I	Y	M	E	D	G	L	I	K	48
TTC	TAT	GCA	GAC	ATA	TAC	ATG	GAA	GAT	GGG	TTG	ATC	AAG	166
L	I	V	P	G	G	G	V	K	T	I	E	A	66
CTG	ATT	GTA	CCA	GGA	GGG	GTG	AAG	ACC	ATC	GAA	GCC	CAC	220
P	G	G	I	D	V	H	T	R	F	Q	M	P	84
CCC	GGA	GGA	ATT	GAC	GTG	CAT	ACT	CGC	TTC	CAG	ATG	CCT	274
S	A	D	D	F	F	Q	G	T	K	A	A	L	102
TCC	GCT	GAT	GAC	TTC	TTC	CAG	GGA	ACC	AAG	GCG	GCC	CTG	328
M	I	I	D	H	V	V	P	E	P	G	T	S	120
ATG	ATC	ATT	GAC	CAT	GTT	GTT	CCT	GAG	CCC	GGG	ACG	AGC	382
D	Q	W	R	E	W	A	D	S	K	S	C	C	138
GAT	CAG	TGG	AGG	GAG	TGG	GCT	GAC	AGC	AAG	TCC	TGC	TGT	436
V	D	I	T	E	W	H	K	G	I	Q	E	E	156
GTG	GAC	ATC	ACT	GAG	TGG	CAC	AAG	GGC	ATC	CAG	GAG	ATG	490
											GAA	GCT	
											CTG	CTG	

FIG. 9A



K	D	H	G	V	N	S	F	L	V	Y	M	A	F	K	D	R	F	174
AAG	GAC	CAC	GGG	GTA	AAC	TCC	TTC	CTC	GTG	TAC	ATG	GCT	TTC	AAA	GAT	CGA	TTC	544
Q	L	T	D	S	Q	I	Y	E	V	L	S	V	I	R	D	I	G	192
CAG	CTG	ACG	GAT	TCC	CAG	ATC	TAT	GAA	GTG	CTG	AGC	GTG	ATC	CGG	GAT	ATC	GGT	598
A	I	A	Q	V	H	A	E	N	G	D	I	I	A	E	A	Q	Q	210
GCC	ATA	GCT	CAA	GTC	CAC	GCA	GAG	AAT	GGT	GAC	ATC	ATT	GCT	GAG	GCA	CAG	CAG	652
R	I	L	D	L	G	I	T	G	P	E	G	H	V	L	S	R	P	228
AGG	ATC	CTG	GAT	CTG	GGC	ATC	ACG	GGC	CCC	GAG	GGA	CAC	GTG	TTG	AGC	CGG	CCA	706
E	E	V	E	A	E	A	V	N	R	S	I	T	I	A	N	Q	T	246
GAG	GAG	GTC	GAG	GCT	GAA	GCT	GTG	AAC	CGG	TCC	ATC	ACT	ATT	GCC	AAC	CAG	ACC	760
N	C	P	L	Y	V	T	K	V	M	P	K	S	A	A	E	V	I	264
AAC	TGC	CCT	CTG	TAT	GTC	ACC	AAA	GTG	ATG	CCC	AAG	AGT	GCG	GCT	GAA	GTC	ATC	814
A	Q	A	R	K	K	G	T	V	V	Y	G	E	P	I	T	A	S	282
GCT	CAG	GCA	CGG	AAG	AAG	GGA	ACT	GTG	GTG	TAT	GGT	GAG	CCC	ATC	ACG	GCC	AGC	868
L	G	T	D	G	S	H	Y	W	S	K	N	W	A	K	A	A	A	300
CTG	GGG	ACT	GAT	GGC	TCT	CAT	TAC	TGG	AGC	AAG	AAC	TGG	GCC	AAG	GCT	GCG	GCC	922
F	V	T	S	P	P	L	S	P	D	P	T	T	P	D	F	L	N	318
TTT	GTC	ACC	TCC	CCA	CCC	TTG	AGC	CCC	GAC	CCA	ACC	ACT	CCA	GAC	TTT	CTC	AAC	976
S	L	L	S	C	G	D	L	Q	V	T	G	S	A	H	C	T	F	336
TCG	TTG	CTG	TCC	TGT	GGA	GAC	CTC	CAA	GTC	ACT	GGC	AGT	GCC	CAC	TGC	ACC	TTC	1030

FIG. 9B

N	T	A	Q	K	A	V	G	K	D	N	F	T	L	I	P	E	G	354
AAC	ACT	GCC	CAG	AAG	GCT	GTG	GGG	AAG	GAC	AAC	TTC	ACC	TTG	ATT	CCC	GAG	GGC	1084
T	N	G	T	E	E	R	M	S	V	I	W	D	K	A	V	V	T	372
ACC	AAC	GGC	ACT	GAG	GAG	CGG	ATG	TCT	GTC	ATT	TGG	GAT	AAA	GCT	GTG	GTC	ACT	1138
G	K	M	D	E	N	Q	F	V	A	V	T	S	T	N	A	A	K	390
GGG	AAG	ATG	GAT	GAG	AAT	CAG	TTT	GTG	GCT	GTG	ACC	AGC	ACC	AAC	GCA	GCC	AAA	1192
V	F	N	L	Y	P	R	K	G	R	I	S	V	G	S	D	A	D	408
GTC	TTC	AAC	CTT	TAC	CCC	CGG	AAA	GGT	CGC	ATC	TCG	GTG	GGA	TCT	GAT	GCT	GAC	1246
L	V	I	W	D	P	D	S	V	K	T	I	S	A	K	T	H	N	426
TTG	GTC	ATC	TGG	GAC	CCT	GAC	AGT	GTG	AAG	ACC	ATC	TCT	GCC	AAG	ACA	CAC	AAC	1300
S	A	L	E	Y	N	I	F	E	G	M	E	C	R	G	S	P	L	444
AGT	GCT	CTT	GAG	TAC	AAC	ATC	TTT	GAA	GGC	ATG	GAG	TGT	CGC	GGC	TCC	CCA	CTG	1354
V	V	I	S	Q	G	K	I	V	L	E	D	G	T	L	H	V	T	462
GTG	GTC	ATC	AGC	CAG	GGC	AAG	ATT	GTC	CTG	GAG	GAC	GGC	ACA	CTT	CAT	GTC	ACT	1408
E	G	S	G	R	Y	I	P	R	K	P	F	P	D	F	V	Y	K	480
GAA	GGC	TCA	GGA	CGC	TAC	ATT	CCC	CGG	AAG	CCC	TTC	CCT	GAC	TTT	GTG	TAC	AAA	1462
R	I	K	A	R	S	R	L	A	E	L	R	G	V	P	R	G	L	498
CGC	ATC	AAA	GCA	AGG	AGC	AGG	CTG	GCT	GAG	CTG	AGA	GGG	GTC	CCT	CGT	GGC	CTG	1516
Y	D	G	P	V	C	E	V	S	V	T	P	K	T	V	T	P	A	516
TAT	GAC	GGA	CCG	GTA	TGC	GAG	GTG	TCT	GTG	ACG	CCC	AAG	ACG	GTG	ACT	CCA	GCC	1570

FIG. 9C

S	S	A	K	T	S	P	A	K	Q	Q	A	P	P	V	R	N	L	534
TCA	TCA	GCT	AAG	ACA	TCC	CCT	GCC	AAG	CAG	CAG	GCA	CCA	CCT	GTT	CGG	AAC	CTG	1624
H	Q	S	G	F	S	L	S	G	A	Q	I	D	D	N	I	P	R	552
CAC	CAG	TCT	GGA	TTC	AGC	TTG	TCT	GGT	GCT	CAG	ATT	GAC	GAC	AAC	ATT	CCC	CGC	1678
R	T	T	Q	R	I	V	A	P	P	G	G	R	A	N	I	T	S	570
CGC	ACC	ACC	CAG	CGC	ATC	GTG	GCA	CCC	CCT	GGT	GGC	CGT	GCC	AAC	ATC	ACC	AGC	1732
L	G	*																573
CTG	GGC	TAA	agcccctagggcctgcaggccacttggggatggggatggggacacctgaggacattctga															1800
gacttcctttcttccat																		

FIG. 9D

Ulip3 mouse

[illegible]

FIG. 10A

S	C	C	D	Y	S	L	H	V	D	I	T	S	W	Y	D	G	V	148
TCC	TGC	TGT	GAC	TAT	TCC	CTC	CAC	GTG	GAC	ATC	ACA	AGC	TGG	TAT	GAT	GGT	GTT	713
R	E	E	L	E	V	L	V	Q	D	K	G	V	N	S	F	Q	V	166
CGG	GAA	GAG	CTG	GAG	GTG	CTG	GTG	CAG	GAC	AAA	GGT	GTC	AAC	TCC	TTC	CAA	GTC	767
Y	M	A	Y	K	D	L	Y	Q	M	S	D	S	Q	L	Y	E	A	184
TAC	ATG	GCG	TAT	AAG	GAC	CTG	TAC	CAG	ATG	TCT	GAC	AGC	CAG	CTG	TAT	GAA	GCC	821
F	T	F	L	K	G	L	G	A	V	I	L	V	H	A	E	N	G	202
TTC	ACC	TTC	CTT	AAG	GGT	TTG	GGA	GCT	GTG	ATC	TTA	GTC	CAT	GCA	GAA	AAT	GGA	875
D	L	I	A	Q	E	Q	K	R	I	L	E	M	G	I	T	G	P	220
GAT	TTG	ATA	GCT	CAG	GAA	CAA	AAA	CGG	ATC	CTG	GAG	ATG	GGC	ATC	ACG	GGT	CCC	929
E	G	H	A	L	S	R	P	E	E	L	E	A	E	A	V	F	R	238
GAG	GGT	CAT	GCT	CTG	AGC	AGA	CCC	GAG	GAG	CTG	GAG	GCC	GAG	GCT	GTG	TTC	CGG	983
A	I	A	I	A	G	R	I	N	C	P	V	Y	I	T	K	V	M	256
GCT	ATT	GCC	ATT	GCA	GGC	CGG	ATC	AAT	TGC	CCT	GTG	TAC	ATC	ACC	AAG	GTC	ATG	1037
S	K	S	A	A	D	I	I	A	L	A	R	K	K	G	P	L	V	274
AGC	AAG	AGT	GCA	GCG	GAC	ATC	ATC	GCA	CTG	GCC	AGG	AAG	AAA	GGC	CCT	CTT	GTC	1091
F	G	E	P	I	A	A	S	L	G	T	D	G	T	H	Y	W	S	292
TTC	GGT	GAG	CCC	ATA	GCC	GCC	AGC	CTG	GGA	ACC	GAT	GGC	ACC	CAC	TAC	TGG	AGC	1145
K	N	W	A	K	A	A	A	F	V	T	S	P	P	L	S	P	D	310
AAG	AAC	TGG	GCC	AAG	GCA	GCT	GCA	TTT	GTG	ACT	TCC	CCT	CCC	CTG	AGC	CCA	GAC	1199

FIG. 10B

Serial No.: 09/367,496
Confirmation No.: 4418

Replacement Sheet

Docket No.: P06473US0/BAS
1st Inventor: AGUERA

P	T	T	P	D	Y	L	T	S	L	L	A	C	G	D	L	Q	V	328
CCC	ACC	ACT	CCT	GAC	TAC	TTG	ACC	TCC	TTG	CTG	GCC	TGT	GGA	GAC	TTG	CAG	GTC	1253
T	G	S	G	H	C	P	Y	S	I	A	Q	K	A	V	G	K	D	346
ACA	GGT	AGT	GGC	CAC	TGT	CCC	TAC	AGT	ATT	GCT	CAG	AAG	GCT	GTG	GGC	AAG	GAC	1307
N	F	T	L	I	P	E	G	V	N	G	I	E	E	R	M	T	V	364
AAC	TTC	ACT	CTG	ATC	CCT	GAG	GGT	GTC	AAT	GGT	ATA	GAA	GAG	CGG	ATG	ACC	GTT	1361
V	W	D	K	A	V	A	T	G	K	M	D	E	N	Q	F	V	A	382
GTC	TGG	GAC	AAG	GCA	GTG	GCT	ACT	GGC	AAG	ATG	GAT	GAG	AAC	CAG	TTT	GTA	GCC	1415
V	T	S	T	N	A	A	K	I	F	N	L	Y	P	R	K	G	R	400
GTC	ACC	AGC	ACC	AAC	GCA	GCC	AAG	ATC	TTC	AAC	CTG	TAC	CCG	AGG	AAA	GGT	CGG	1469
I	A	V	G	S	D	A	D	V	V	I	W	D	P	D	K	M	K	418
ATC	GCT	GTG	GGC	TCC	GAT	GCT	GAC	GTA	GTC	ATC	TGG	GAC	CCA	GAT	AAG	ATG	AAG	1523
T	I	T	A	K	S	H	K	S	T	V	E	Y	N	I	F	E	G	436
ACC	ATA	ACA	GCC	AAA	AGC	CAT	AAA	TCA	ACT	GTG	GAG	TAC	AAC	ATC	TTT	GAG	GGC	1577
M	E	C	H	G	S	P	L	V	V	I	S	Q	G	K	I	V	F	454
ATG	GAG	TGC	CAC	GGC	TCC	CCC	CTG	GTG	GTC	ATC	AGT	CAG	GGC	AAG	ATT	GTC	TTT	1631
E	D	G	N	I	S	V	S	K	G	M	G	R	F	I	P	R	K	472
GAG	GAT	GGA	AAC	ATC	AGT	GTC	AGC	AAG	GGC	ATG	GGC	CGC	TTC	ATC	CCT	CGG	AAG	1685
P	F	P	E	H	L	Y	Q	R	V	R	I	R	S	K	V	F	G	490
CCA	TTC	CCA	GAG	CAT	CTC	TAC	CAG	CGT	GTC	AGG	ATC	AGA	AGC	AAG	GTT	TTC	GGG	1739

FIG. 10C

L H S V S R G M Y D G P V Y E V P A 508
TTG CAT AGT GTT TCC AGG GGC ATG TAC GAT GAT GGG CCT GTG GTG CCA GCT 1793

T P K H A A A P A P S S A E S S P S K H 526
ACA CCC AAA CAT GCT GCT GCT CCT CCT TCT TCT GCC GAA TCC TCG CCT TCT AAA CAC 1847

Q P P P I R N L H Q S N F S L S G A 544
CAA CCC CCA CCC ATC CGG AAC CTC CAC CAG TCC AAC TTC AGC TTA TCA GGT GCC 1901

Q I D D N N P R R T G H R I V A P P 562
CAG ATA GAT GAC AAC AAT CCA AGG CGT ACA GGC CAC CGC ATT GTG GCG CCC CCT 1955

G G R S N I T S L G * 573
GGT GGC CGC TCC AAC ATC ACC AGC CTC GGT TGA cctcagatgagccagatatgcaagagt 2015

gaaggattatgggaaaacgtccattcctttccgtgtttttgaagcccacagtttttagttggtactgacgga 2087

ggggagattgagcgatgctcttcccttctctgttttaggaagaagtgtactagtgtggtgttgcctgga 2159

agtccctcgccacagtggtgttcacaccgactccacctcagagcatggtgccgtccgttttcccttccta 2231

gtgacccaggttagcatcgctcctatactgttccctccactcctccatgacccctctgagtgatgg 2297

FIG. 10D

Ulip4 mouse

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gctgactaatatgcttaattcaggggtcgccacgtctggtcggtacgtccacgcccgcgagccctacc 72
gaggacactcagcccgccgtgtatcagg ATG TCC TTC CAA GGC AAG AAG AGC ATT CCC 10
131
R I T S D R L L I K G G K I V N D D 28
CGG ATA ACG AGC GAC CGC CTT CTC ATC AAA GGT GGG AAG ATT GTG AAC GAT GAC 185
Q S F H A D L Y V E D G L I K Q I G 46
CAG TCC TTT CAT GCT GAT CTG TAT GTG GAA GAC GGT CTG ATT AAA CAA ATT GGA 239
E N L I V P G G GGC ATC AAA ACC ATC GAT GCT CAT GGC CTG ATG 64
GAA AAT CTC ATC GTC CCT GGG GGC ATC AAA ACC ATC GAT GCT CAT GGC CTG ATG 293
V L P G G V D V H T R L Q M P V M G 82
GTG CTG CCT GGG GGA GTT GAC GTT CAC ACC CGG CTG CAG ATG CCT GTG ATG GGC 347
M T P A D D F C Q G T K A A L A G G 100
ATG ACC CCA GCT GAT GAT TTC TGT CAG GGC ACC AAG GCG GCT CTA GCA GGC GGG 401
T T M I L D H V F P D A G V S L L A 118
ACC ACC ATG ATA TTG GAC CAT GTG TTT CCT GAC GCT GGT GTG AGC CTG CTG GCA 455
A Y E Q W R D G A D S A A C C D Y S 136
GCC TAT GAG CAG TGG CGG GAC GGA GCA GAC AGC GCG GCC TGC TGT GAC TAC TCC 509
L H V D I P R W H E S T K E L E A 154
TTA CAT GTG GAC ATT CCT CGC TGG CAC GAG AGC ACC AAA GAA GAG CTG GAG GCC 563

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FIG. 11A

L V R D K G V N S F L V F M A Y K D	172
CTA GTC AGG GAC AAA GGT GTG AAC TTC CTG CTC TTC ATG GCA TAC AAG GAC	617
R C Q C T D G Q I Y E I F S L I R D	190
AGG TGC CAG TGT ACT GAC GGT CAG ATA TAT GAA ATC TTC AGC CTC ATC CGG GAC	671
L G A V A Q V H A E N G D I V E E E	208
CTG GGA GCT GTG GGC CAG GTG CAC GCA GAA AAT GGG GAC ATC GTG GAG GAG GAA	725
Q K R L L E Q Q G I T G P E G H V L S	226
CAG AAG CGC CTG CTG GAG CAA GGC ATC ACT GGT CCT GAG GGC CAT GTG CTC AGC	779
H P E E V E A E A V Y R A V T I A K	244
CAC CCA GAA GAG GTA GAG GCC GAG GCT GTG TAC AGA GCA GTC ACC ATT GCC AAG	833
Q A N C P L Y V T K V M S K G A A D	262
CAG GCC AAC TGC CCA CTA TAC TAC GTC ACC AAG GTG ATG AGC AAG GGT GCA GCT GAC	887
M V A Q A K R R G V V V F G E P I T	280
ATG GTT GCC CAA GCC AAG CGC AGG GGG GTG GTC GTC TTT GGG GAA CCT ATC ACT	941
A S L G T D G S H Y W S K N W A K A	298
GCC AGC CTG GGC ACT GAT GGC TCA CAC TAC TGG AGC AAG AAC TGG GCC AAG GCT	995
A A F V T S P P I N P D P T A D H	316
GCA GCC TTT GTC ACT TCA CCC CCT ATC AAC CCG GAC CCT ACT ACT GCA GAC CAC	1049
L T S L L S S G D L Q V T G S A H C	334
CTC ACC TCT CTG CTG TCC AGT GGG GAC CTC CAG GTG ACA GGC AGT GCC CAC TGC	1103

FIG. 11B

T	F	T	T	A	Q	K	A	V	G	K	D	N	F	T	L	I	P	352
ACC	TTC	ACT	ACT	GCC	CAG	AAG	GCT	GTT	GGC	AAA	GAC	AAC	TTC	ACA	CTG	ATC	CCC	1157
E	V	V	N	G	I	E	E	R	M	S	V	V	W	E	K	C	V	370
GAG	GTA	GTC	AAC	GGT	ATA	GAA	GAG	CGC	ATG	TCT	GTG	GTC	TGG	GAG	AAA	TGT	GTG	1211
A	S	G	K	M	D	E	N	E	F	V	A	V	T	S	T	N	A	388
GCT	TCA	GGG	AAA	ATG	GAC	GAG	AAT	GAG	TTC	GTT	GCC	GTG	ACC	AGC	ACA	AAT	GCT	1265
A	K	I	F	N	F	Y	P	R	K	G	R	V	A	V	G	S	D	406
GCC	AAA	ATC	TTC	AAT	TTT	TAC	CCC	AGG	AAG	GGG	CGT	GTG	GCC	GTG	GGC	TCT	GAT	1319
A	D	L	V	I	W	N	P	R	A	T	K	V	I	S	A	K	S	424
GCT	GAC	CTG	GTC	ATC	TGG	AAC	CCC	AGG	GCC	ACG	AAA	GTC	ATC	TCT	GCC	AAG	AGC	1373
H	N	L	N	V	E	Y	N	I	F	E	G	V	E	C	R	G	V	442
CAT	AAC	CTG	AAT	GTA	GAG	TAC	AAC	ATC	TTT	GAA	GGA	GTG	GAG	TGC	CGA	GGA	GTG	1427
P	T	V	V	I	S	Q	G	R	V	V	L	E	D	G	N	L	L	460
CCC	ACG	GTG	GTC	ATA	AGT	CAG	GGC	AGA	GTG	GTG	CTG	GAG	GAC	GGA	AAC	CTG	CTT	1481
V	T	P	G	A	G	R	F	I	P	R	K	T	F	P	D	F	V	478
GTC	ACT	CCA	GGG	GCT	GGC	CGC	TTC	ATT	CCC	CGG	AAG	ACG	TTC	CCG	GAC	TTT	GTC	1535
Y	K	R	I	K	A	R	N	R	L	A	E	I	H	G	V	P	R	496
TAT	AAG	AGG	ATA	AAG	GCT	CGC	AAC	AGG	CTA	GCA	GAG	ATC	CAC	GGT	GTG	CCT	CGA	1589

FIG. 11C

G	L	Y	D	G	P	V	H	E	V	M	L	P	A	K	P	G	S	514
GGC	CTG	TAC	GAC	GGG	CCT	GTG	CAT	GAA	GTG	ATG	TTA	CCT	GCC	AAG	CCA	GGA	AGT	1643
G	T	Q	A	R	A	S	C	S	G	K	I	S	V	P	P	V	R	532
GGC	ACA	CAG	GCC	CGT	GCA	TCC	TGT	TCA	GGC	AAG	ATC	TCA	GTG	CCA	CCC	GTG	CGC	1697
N	L	H	Q	S	G	F	S	L	S	G	S	Q	A	D	D	H	I	550
AAC	CTG	CAC	CAG	TCG	GGG	TTC	AGC	CTA	TCT	GGC	TCT	CAG	GCT	GAC	GAT	CAC	ATT	1751
A	R	R	T	A	Q	K	I	M	A	P	P	G	G	R	S	N	I	568
GCC	AGA	CGT	ACG	GCT	CAG	AAG	ATC	ATG	GCA	CCC	CCC	GGA	GGA	CGC	TCC	AAC	ATC	1805
T	S	L	S	*														573
ACG	TCT	CTT	TCC	TAG	acttg	gggtc	tttg	gcaag	ctg	gtg	ctgt	gtcccc	actgg	cagg	gtgt	gtggg	gac	1871
gactcacgtcagttagctccttcctttagattgttatgtgaaagggc																		1920

FIG. 11D

	M	S	F	Q	G	K	K	S	I	P
10	G	C	C	C	C	C	C	C	C	C
61	G	C	C	C	C	C	C	C	C	C
28	R	I	T	S	D	R	L	L	I	R
115	C	G	G	A	C	G	C	C	T	T
46	Q	S	F	Y	A	D	V	H	V	E
169	C	A	G	T	T	A	C	G	T	G
64	E	N	L	I	V	P	G	G	I	*
223	G	A	A	C	T	C	G	G	A	T
82	V	L	P	G	G	V	D	V	H	T
277	G	T	C	T	C	T	G	G	T	A
100	M	T	P	A	D	D	F	C	Q	G
331	A	T	G	C	T	G	T	T	C	A
118	T	T	M	I	L	D	H	V	F	P
385	A	C	C	A	T	T	G	C	T	C
136	A	Y	E	Q	W	R	E	R	A	D
439	G	C	C	T	A	C	G	G	G	A
154	L	H	V	D	I	T	R	W	H	E
493	C	T	G	C	A	T	C	A	T	G

FIG. 12A

L	V	K	E	K	G	V	N	S	F	L	V	F	M	A	Y	K	D	172
CTG	GTC	AAG	GAG	AAG	GGT	GTG	AAC	TCC	TTC	CTG	GTC	TTC	ATG	GCA	TAC	AAG	GAC	547
R	C	Q	C	S	D	S	Q	M	Y	E	I	F	S	I	I	R	D	190
CGG	TGC	CAG	TGC	AGC	GAC	AGC	CAG	ATG	TAC	GAG	ATC	TTC	AGC	ATC	ATC	CGG	GAC	601
L	G	A	L	A	Q	V	H	A	E	N	G	D	I	V	E	E	E	208
CTG	GGG	GCC	TTG	GCC	CAG	GTG	CAC	GCT	GAG	AAC	GGG	GAC	ATC	GTG	GAG	GAG	GAG	655
Q	K	R	L	L	E	L	G	I	T	G	P	E	G	H	V	L	S	226
CAG	AAG	CGG	TTG	CTG	GAG	CTC	GGC	ATC	ACT	GGC	CCC	GAG	GGC	CAC	GTG	CTC	AGC	709
H	P	E	E	V	E	A	E	A	V	Y	R	A	V	T	I	A	K	244
CAC	CCC	GAG	GAG	GTG	GAG	GCT	GAG	GCG	GTG	TAC	CGA	GCT	GTC	ACC	ATC	GCC	AAG	763
Q	A	N	C	P	L	Y	V	T	K	V	M	S	K	G	A	A	D	262
CAG	GCA	AAC	TGC	CCG	CTG	TAC	TAC	ACC	AAG	GTG	ATG	AGC	AAG	GGG	GCG	GCC	GAC	817
A	I	A	Q	A	K	R	R	G	V	V	V	F	G	E	P	I	T	280
GCC	ATC	GCT	CAG	GCC	AAG	CGC	AGA	GGG	GTG	GTG	GTG	TTT	GGG	GAG	CCC	ATC	ACC	871
A	S	L	G	T	D	G	S	H	Y	W	S	K	N	W	A	K	A	298
GCC	AGC	CTG	GGC	ACC	GAC	GGT	TCA	CAC	TAC	TGG	AGC	AAG	AAC	TGG	GCC	AAG	GCT	925
A	A	F	V	T	S	P	P	V	N	P	D	P	T	T	A	D	H	316
GCA	GCC	TTC	GTC	ACA	TCA	CCC	CCT	GTC	AAC	CCA	GAC	CCC	ACC	ACG	GCA	GAC	CAC	979
L	T	C	L	L	S	S	G	D	L	Q	V	T	G	S	A	H	C	334
CTC	ACC	TGC	TTG	CTG	TCC	AGC	GGG	GAC	CTC	CAG	GTG	ACA	GGC	AGC	GCC	CAC	TGC	1033

FIG. 12B

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T	F	T	T	A	Q	K	A	V	G	K	D	N	F	A	L	I	P	352
ACC	TTC	ACC	ACT	GCC	CAG	AAG	GCT	GTG	GGC	AAG	GAC	AAC	TTC	GCG	CTG	ATC	CCC	1087
E	G	T	N	G	I	E	E	R	M	S	M	V	W	E	K	C	V	370
GAG	GGC	ACC	AAC	GGC	ATT	GAG	GAG	CGC	ATG	TCG	ATG	GTC	TGG	GAG	AAA	TGT	GTG	1141
A	S	G	K	M	D	E	N	E	F	V	A	V	T	S	T	N	A	388
GCC	TCT	GGG	AAG	ATG	GAC	GAG	AAT	GAG	TTC	GTC	GCG	GTG	ACC	AGT	ACA	AAT	GCT	1195
A	K	I	F	N	F	Y	P	R	K	G	R	V	A	V	G	S	D	406
GCC	AAA	ATC	TTC	AAT	TTT	TAC	CCA	AGG	AAG	GGG	CGA	GTG	GCT	GTG	GGC	TCT	GAC	1249
A	D	L	V	I	W	N	P	K	A	T	K	I	I	S	A	K	T	424
GCT	GAC	CTG	GTC	ATA	TGG	AAC	CCC	AAG	GCC	ACC	AAG	ATC	ATC	TCT	GCC	AAG	ACC	1303
H	N	L	N	V	E	Y	N	I	F	E	G	V	E	C	R	G	A	442
CAC	AAT	CTG	AAC	GTG	GAG	TAC	AAC	ATC	TTC	GAG	GGA	GTG	GAG	TGC	CGG	GGA	GCG	1357
P	A	V	V	I	S	Q	G	R	V	A	L	E	D	G	K	M	F	460
CCT	GCC	GTG	GTC	ATA	AGT	CAG	GGC	CGA	GTG	GCG	CTG	GAG	GAC	GGG	AAG	ATG	TTT	1411
V	T	P	G	A	G	R	F	V	P	R	K	T	F	P	D	F	V	478
GTC	ACC	CCG	GGG	GCG	GGC	CGC	TTC	GTC	CCT	CGG	AAA	ACA	TTC	CCG	GAC	TTT	GTC	1465
Y	K	R	I	K	A	R	N	R	L	A	E	I	H	G	V	P	R	496
TAC	AAG	AGG	ATC	AAA	GCT	CGC	AAC	AGG	CTG	GCG	GAG	ATC	CAC	GGT	GTG	CCC	CGT	1519

FIG. 12C

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1st Inventor: AGUERA

G	L	Y	D	G	P	V	H	E	V	M	V	P	A	K	P	G	S	514
GGG	CTG	TAT	GAC	GGG	CCC	GTC	CAC	GAG	GTG	ATG	GTG	CCT	GCC	AAG	CCA	GGG	AGT	1573
G	A	P	A	R	A	S	C	P	G	K	I	S	V	P	P	V	R	532
GGC	GCT	CCG	GCC	CGC	GGC	TCC	TGC	CCA	GGC	AAG	ATC	TCC	GTG	CCT	CCT	GTG	CGC	1627
N	L	H	Q	S	G	F	S	L	S	G	S	Q	A	D	D	H	I	550
AAC	CTA	CAT	CAG	TCG	GGG	TTC	AGC	CTA	TCT	GGG	TCT	CAG	GCT	GAT	GAC	CAC	ATC	1681
A	R	R																553
GCC	CGA	CGC																1690

FIG. 12D